### **ENVIRONMENTAL CHEMISTS**

Date of Report: 05/13/99 Date Received: 04/29/99

Project: Metro Self Monitor, PO# M61876

Date Samples Extracted: 05/10/99 Date Extracts Analyzed: 05/10/99

## RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR CHROMIUM, COPPER, NICKEL, ZINC USING METHOD 6010

# Samples Processed Using Method 3005A

Results Reported as mg/L (ppm)

Sample ID	Chromium Copper	Nickel Zinc
M61876	0.84 0.74	0.80 < 0.05
Method Blank	<0.05 <0.05	<0.05 <0.05

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Date of Report: 05/13/99 Date Received: 04/29/99

Project: Metro Self Monitor, PO# M61876

# QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 904115-01 (Duplicate)

						Relative		
			Reporting	Sample	Duplicate	Percent	Acceptanc	e
1	Analyte	to the second	Units	Result	Result	Differenc	e Criteria	
	Chromium		mg/L (ppm)	0.84	0.91	8	0-20	₩.
	Copper		mg/L (ppm)	0.74	0.83	11	0-20	
	Nickel		mg/L (ppm)	0.80	0.85	6	0-20	
	Zinc		mg/L (ppm)	< 0.05	< 0.05	nm	0-20	

Laboratory Code: 904115-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recove	ry % Recove	ery Acceptance	<b>.</b>	
Analyte	Units	Level	Result	MS	MSD	Criteria	RPD	
Chromium	mg/L (ppm)	5	0.84	104	105	80-120	1	_
Copper	mg/L (ppm)	5	0.74	109	106	80-120	3	
Nickel	mg/L (ppm)	10	0.80	104	105	80-120	.1	
Zinc	mg/L (ppm)	5	< 0.05	106	107	80-120	1	

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	% Recove	ery % Recove	ry Acceptanc	e	
Analyte	Units	Level	LCS	LCSD	Criteria	RPD	
Chromium	mg/L (ppm)	5	107	104	80-120	3	
Copper	mg/L (ppm)	5	104	99	80-120	5	
Nickel	mg/L (ppm)	10	107	105	80-120	2	
Zinc	mg/L (ppm)	5	111	109	80-120	2	

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

FRIEDMAN & BRUYA, INC. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282

904115

mm 42999 AII

# SAMPLE CHAIN OF CUSTODY

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### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

May 13, 1999

### **DUPLICATE COPY**

### **INVOICE #99ACU0513-1**

Accounts Payable Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M61876: Results of testing requested by Gerry Thompson for material submitted on April 29, 1999.

FEDERAL TAX ID (b) (6)

### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

May 13, 1999

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on April 29, 1999 from your Metro Self Monitor, PO# M61876 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Manuel Marti Project Manager

Enclosures ACU0513R.DOC